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THERMOPLASTIC POLYMER

A thermoplastic polymer is one that is capable of being repeatedly softened by heating and hardened by cooling through a characteristic temperature range, and that in the softened state can be shaped by flow into articles by molding or extrusion. Thermoplastic applies to those materials whose change upon heating is substantially physical (1) (See also THERMOSETTING POLYMER).

BIBLIOGRAPHY

 ASTM D 883-86b, Standard Definitions of Terms Relating to Plastics, American Society for Testing and Materials, Philadelphia, Pa., 1986.

THERMOGRAVIMETRIC ANALYSIS. See DEGRADATION; THERMAL ANALYSIS in the Supplement.

THERMOMECHANICAL PROPERTIES. See MECHANICAL PROPERTIES.

THERMOSETTING POLYMER

A thermosetting polymer is one that is capable of being changed into a substantially infusible or insoluble product when cured by heat or other means (1). The cured polymer may be termed thermoset (see also CURING; THERMO-PLASTIC POLYMER).

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THETA PARAMETER. See SOLUTION PROPERTIES.

THIAZOLE POLYMERS. See POLYBITHIAZOLES; POLYBENZOTHIAZOLES AND POLYBENZOXIAZOLES.

THIN-LAYER CHROMATOGRAPHY. See CHROMATOGRAPHY.

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